

**SINGLE LEVEL BILL OF MATERIAL AVAILABLE TO
PROMISE**

ABSTRACT OF THE INVENTION

5 A computer implemented Availability Checking
Tool wherein tool users work within a common work
environment, from common enterprise data, and
considering assets and demands across multiple order
management systems and manufacturing facilities
10 within boundaries established by manufacturing
specifications, process flows and business policies.
Tool users can easily maintain a synergistic
relationship between orders from multiple demand
sources or ordering systems. A demand configurator
15 receives demand information from each demand source
and coordinates product requests in accordance with
customer request rules and priorities. A supply
configurator receives manufacturing and planning data
from a planning source and manipulates the received
20 manufacturing and planning data to create new supply
data. A material resource engine provides material
supply information from the new supply data, the
received demand information following product supply
rules and priorities. A solver for optimizes product
25 availability information in response to the material
supply information, product supply rules and
priorities. Thus, customer business rule level